

**AMENDMENTS TO THE CLAIMS**

*Please amend claims as set forth below:*

1-123. (Cancelled).

124. **(Currently amended)** A method for fabricating an orthopedic implant prosthesis bearing, comprising the steps of:

pre-annealing a polyethylene preform at a temperature greater than ambient temperature and less than the decomposition temperature of the polyethylene for a period of time greater than 30 minutes;

irradiating the polyethylene preform, thereby ~~[[to]]~~ crosslinking the polyethylene preform; and

quenching residual free radicals in the polyethylene preform.

125. (Previously presented) The method of claim 124, further comprising the steps of:

cooling the preform after the quenching step to a temperature below the melting temperature of the polyethylene; and

forming the preform into a prosthetic bearing.

126. **(Currently amended)** A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

pre-annealing an ultrahigh molecular weight polyethylene preform;

irradiating the ultrahigh molecular weight polyethylene preform, thereby ~~[[to]]~~ crosslinking the ultrahigh molecular weight polyethylene preform;

quenching residual free radicals in the ultrahigh molecular weight polyethylene preform subsequent to the irradiating step; and

forming the ultrahigh molecular weight polyethylene preform into a prosthetic bearing.

127. **(Currently amended)** A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

pre-annealing a polyethylene preform;

irradiating the polyethylene preform, thereby ~~[[to]]~~ crosslinking the polyethylene preform;

quenching residual free radicals in the polyethylene preform subsequent to the irradiating step; and

forming the polyethylene preform into a prosthetic bearing.

128. (Withdrawn) A method for fabricating an orthopedic implant prosthesis bearing, comprising the steps of:

melting a polyethylene preform for a period of time greater than about 30 minutes;

irradiating the polyethylene preform to crosslink the polyethylene preform; and  
quenching residual free radicals in the polyethylene preform.

129. (Withdrawn) The method of claim 128, further comprising the steps of:

cooling the preform after the quenching step to a temperature below the melting temperature of the polyethylene; and

forming the preform into a prosthetic bearing.

130. (Withdrawn) A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

melting an ultrahigh molecular weight polyethylene preform;

irradiating the ultrahigh molecular weight polyethylene preform to crosslink the ultrahigh molecular weight polyethylene preform;

quenching residual free radicals in the ultrahigh molecular weight polyethylene preform subsequent to the irradiating step; and  
forming the ultrahigh molecular weight polyethylene preform into a prosthetic bearing.

131. (Withdrawn) A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:  
melting a polyethylene preform;  
irradiating the polyethylene preform to crosslink the polyethylene preform;  
quenching residual free radicals in the polyethylene preform after an irradiation;  
and  
forming the polyethylene preform into a prosthetic bearing.

132. (Withdrawn) The method according to claim 128, wherein the polyethylene is ultrahigh molecular weight polyethylene.

133. (Withdrawn) A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:  
irradiating a polyethylene preform that has been melted, thereby crosslinking the polyethylene  
quenching residual free radicals in the polyethylene preform after an irradiation;  
and  
forming the polyethylene preform into a prosthetic bearing.

134. (Withdrawn) The method according to claim 133, wherein the polyethylene is ultrahigh molecular weight polyethylene.